

# Sarah Elizabeth Gillespie

PHD STUDENT · KHOURY COLLEGE OF COMPUTER SCIENCES

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## Education

### Northeastern University: Khoury College of Computer Sciences

Boston, MA

#### PHD COMPUTER SCIENCE

2023 - present

- Advisor: Dr. Christo Wilson
- Khoury Distinguished Fellowship
- Member and Organizer, Khoury Women's PhD Group
- Coursework: Usable Security and Privacy, Medical Device Cybersecurity, Human-Computer Interaction, Wireless and Mobile Systems Security, Regulation of Technology in the Digital Economy, Algorithms, Statistical Methods for Comp Sci

### Smith College

Northampton, MA

#### BA QUANTITATIVE ECONOMICS; BA STATISTICAL AND DATA SCIENCE

2018 - 2022

- Double Major: Quantitative Economics and Statistical and Data Sciences
- Special Study: Algorithm fairness teachable unit supervised by Professor Katherine Kinnaird

## Professional Experience

2023-

Present

**PhD Candidate & Research Assistant**, Khoury College of Computer Sciences, Northeastern University

2022-2023

**Metrologist / Quality Engineer**, Sartorius Stedim Biotech

2020-2021

**Market Monitoring Intern**, ISO New England Inc.

## Publications

### PUBLISHED

Gunawan, J., **Gillespie, S.E.**, Choffnes, D., Hartzog, W., Wilson, C. 2025. Promises, Promises: Understanding Claims Made in Social Robot Consumer Experiences. Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25).

Michel, S., Kaur, S., **Gillespie, S.E.**, Gleason, J., Wilson, C., Ghosh, A. 2025. "It's not a representation of me": Examining Accent Bias and Digital Exclusion in Synthetic AI Voice Services. Proceedings of the 2025 ACM Conference on Fairness, Accountability, and Transparency (FAccT '25).

**Gillespie, S.E.**, Wilson, C. 2024. Investigating the Datafication of Your Car. IEEE Security 8th Workshop on Technology and Consumer Protection (ConPro '24).

### IN REVIEW

Privacy in the Rearview: Empirical Analysis of Connected Vehicle Data Exposure

### IN PREP

Crowd-sourced DSARs from vehicle companies

Project "Robots": AI Social Robots

## Awards, Fellowships, & Grants

2023-2024	<b>Khoury Distinguished Fellowship</b> , Northeastern University, Khoury College of Computer Sciences	60000
2022	<b>Five College Statistics Prize for outstanding service to statistics</b> , Smith College, Statistical and Data Sciences Program	

## Presentations

### CONFERENCE PRESENTATIONS

May 2024. *Investigating the Datafication of Your Car*. IEEE Security 8th Workshop on Technology and Consumer Protection (ConPro '24), San Francisco, CA.

### CONFERENCE ATTENDANCE

PETS 2025 - Privacy Enhancing Technologies Symposium

ACM CHI 2025 - Conference on Human Factors in Computing Systems

CS Law 2024 - Computer Science and Law Conference

IEEE S&P 2024 - IEEE Symposium on Security and Privacy

## Outreach & Professional Development

### SERVICE AND OUTREACH

2023- Present	<b>Khoury Women's PhD Group</b> , Organizer	Boston, MA, USA
2025	<b>Mon(IoT)r Lab</b> , Student Recruitment	Boston, MA, USA
2021	<b>Smithies in Statistical and Data Sciences</b> , President	Northampton, MA, USA

### DEVELOPMENT

**Algorithm Fairness Teachable Unit**, Smith College Special Study supervised by Professor Katherine Kinnaird. Developed comprehensive curriculum on creating transparent, trustworthy, and fair machine learning algorithms with focus on preventing discrimination against protected classes. Curriculum includes different definitions of fairness, mathematics behind trust scores, and hands-on implementation labs.

### RESEARCH INTERESTS

Consumer Protection and AI Ethics

Algorithm Auditing

Privacy and Tracking

AI Social Robots

Datafication and IoT Devices